

KATANYAN, A.A.; OGANESYAN, A.A.

Some biochemical indices in rheumatic carditis and their  
diagnostic importance. Zhur. eksp. i klin. med. 4 no.2:31-37  
'64. (MIRA 17:8)

1. Kafedra terapii Yerevanskogo meditsinskogo instituta.

KATANYAN, V.V.

In the Kabardian A.S.S.R. Zdorov'e 3 no.7:23-24 J1 '57. (MLRA 10:8)  
(KABARDINO-BALKAR A.S.S.R.--DESCRIPTION AND TRAVEL)

KATAPAN, W.

Problem of increasing production of industrial lumber. p. 214, AZ  
ERDO (Orszagos Erdesulet) Budapest, Vol. 5, No. 6, June 1956

SOURCE: EEAL, Vol 5, no. 11, November 1956

GARDA, Czeslaw, inz.; KATARASINSKI, Tadeusz, mgr inz.

Polish-made organic pigments in pastes. Chemik 16 no.9:  
267-268 s '63.

KATARENKO, D. A.

AID P - 838

Subject : USSR/Mining

Card 1/1 Pub. 78 - 23/26

Author : Parkhomenko, V. Ye.

Title : Misrepresentation in a popular scientific book

Periodical : Neft. khoz., v. 32, #9, 92-94, S 1954

Abstract : Critical comments on the book titled Black Gold by  
D. A. Katarenko.

Institution: None

Submitted : No date

KATAREV, M. V.

Svarka pri proizvodstve sanitarno-tekhnicheskikh rabot. Moskva, Gos.  
izd-vo stroit. lit-ry, 1949. 207 p. illus.

Welding during sanitary engineering operations.  
DIC: TS227.K28

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of  
Congress, 1953.

KATARGIN, YU. N.

Jun 53

USSR/Electricity - Transformers  
Core Materials

"Sensitivity of Relay Protection Using Current Transformers With Cores of Non-Magnetic Materials," Yu.N. Katargin, Cand Tech Sci, Chelyabinsk Polytech Inst

Elektrichestvo, No 6, pp 32-35

Cites results of expts to check properties of current transformers with cores of non-magnetic materials. Presents method for detg optimum number of turns for transformer from viewpoint of sensitivity of protection. Concludes this type should find wide

268T53

use for differential protection of busbars, generators, synchronous compensators, since they are free from satn, have small time const, give sensitive enough protection. Submitted 16 Oct 53.

268T53

SOV/112-58-2-2138

Translation from: Referativnyy zhurnal, Elektrotehnika, 1958, Nr 2, p 56 (USSR)

AUTHOR: Katargin, Yu. N.

TITLE: A Differential Protective System with Nonsaturating Current Transformers for Generators (Differentsial'naya zashchita generatorov s nenasyschayushchimisya transformatorami toka /NTT/)

PERIODICAL: Sb. st., Chelyabinskiy politekhn. in-t, 1956, energ. vyp, Nr 1, pp 29-35

ABSTRACT: The use of nonsaturating (air-core) current transformers for the differential protective systems of generators and synchronous condensers removes the possibility of faulty protective-system operation due to nonidentical magnetic characteristic of the steel-cores of conventional current transformers. It also increases the sensitivity of the protective system, and decreases its cost. Nonsaturating transformers are simple in design and their time constant is small. Optimum relationships between relay and current transformer resistances are indicated, as are calculating formulae and tables.

A.D.Sh.

Card 1/1



KATARGIN, Yu.N., kand.tekhn.nauk, dotsent

Formulas for calculating electrical loads. Energ. sbor.  
no.2:135-140 '59. (MIRA 15:1)  
(Electric power distribution)

SOV/110-59-9-7/22

AUTHOR: Katargin, Yu.N. (Cand.Tech.Sci.)

TITLE: Characteristics of Current Transformers with Rectangular Air Cores

PERIODICAL: Vestnik elektropromyshlennosti, 1959, Nr 9, pp 26-28 (USSR)

ABSTRACT: Busbar current-transformers for primary currents of 25 kA and more are large and heavy. For high currents it is advisable to use lighter current-transformers with air cores, so economising transformer steel. This article considers current transformers with rectangular air cores, such as types TNSh and TPShF. To determine the mutual inductance between the primary and secondary windings, the cores which are illustrated diagrammatically in Fig 1 are considered as divided into four sections. The flux linkage is calculated for each section separately and then summated to give the total flux linkage for the whole core. It is assumed that the secondary winding is distributed uniformly over each of the sections except for the angles. The calculations are then made for sections 1 and 3 using the notation of Fig 2. Similar calculations are made for sections 2 and 4, using the notation of Fig 3. Angles that enter into the summation are determined with reference

Card 1/2

SOV/110-59-9-7/22

Characteristics of Current Transformers with Rectangular Air Cores

to Fig 4. Expressions are given for the mutual inductance, the secondary e.m.f., the secondary inductance and reactance, the secondary current and the transformation ratio. The theoretical values are in good agreement with test results. It is important to notice that the transformation ratio does not depend on the window area and, therefore, to cut down the amount of wire used in the secondary winding it is advantageous to have the core as close as possible to the busbars. A worked numerical example is given of the determination of transformation ratio for several values of active load, and the results are tabulated.

Card 2/2

There are 4 figures, 1 table and 1 Soviet reference.

KATARGIN, Yu.N., kand.tekhn.nauk.

Optimum diameter of the wire of the secondary winding of a current transformer with a core of nonmagnetic material. Vest. elektroprom. 32 no.3:19-21 Mr '61. (MIRA 15:6)  
(Electric transformers--Windings)

KATARGIN, Yu.N., kand.tekhn.nauk, dotsent

Characteristics of power transformers with different types of cores.  
Izv. vys. ucheb. zav.; energ. 6 no.7:18-23 J1 '63. (MIRA 16:8)

1. Chelyabinskiy politekhnicheskii institut. Predstavleno kafedroy  
elektricheskikh stantsiy, setey i sistem.  
(Electric transformers)

KATARGIN, Yu.N., kand. tekhn. nauk, dotsent

Effect of adjacent current on current transformers with  
demountable toroidal cores. Izv. vys. ucheb. zav.; energ.  
7 no.10:87-91 0 '64. (MIRA 17:12)

1. Chelyabinskiy politekhnicheskiy institut. Predstavleno  
kafedroy elektricheskikh stantsiy, setey i sistem.

KATARIN, V.P., inzhener.

Mass production of cores made of mixtures on a liquid glass base.  
Lit. proizv. no.5:30-31 My '57. (MIRA 10:6)  
(Coremaking)

NEFEDOV, P.Ya.; CHERNOBROVKIN, V.P.; KATARIN, V.P.; ANAN'IN, A.A.;  
BALBASHEV, V.K.; RYVKIN, I.Yu.; TSYNOVNIKOV, A.S.; KUZ'MIN, I.V.;  
YAKOVLEV, S.Ye.; SHULAYEV, V.I.; MATSEVICH, S.I.; NARNITSKIY, A.P.;  
BOKOV, O.K.; CHEREPANOV, V.Ye.

Coke briquets for cupola furnaces. Lit. proizv. no.3:6-7  
Mr '65. (MIRA 18:6)



TESKEREDZIC, Dzelal, KATARINIC, Branko

Contribution to the study of tracheoceles. Srpski arh. celok.  
lek. 91 no. 10: 923-930 0\*63.

1. Otorinolaringolosko odeljenje Vojne bolnice u Sarajevu;  
sef: dr. Dzelel Teskeredzic.

5

KATARINOVA, I. V.

Katarinova, I. V. "Korsakov's syndrome in organic diseases of the brain." Min Health Moldavian SSR. Kishinev State Medical Inst. Kishinev, 1956. (Dissertation for the Degree of Candidate in Medical Science)

So: Knizhnaya letopis', No. 27, 1956. Moscow. Pages 94-109; 111.

KATARINOVA, I.V.

Thromboses of the sinuses of the dura mater, of the cerebral veins  
and subdural hematomas in infectious psychoses with an acute course.  
Vop. psikh. no.4:347-353 '60. (MIRA 15:2)

1. Respublikanskaya psikhonevrologicheskaya bol'nitsa, Kishinev.  
Vneshtatnyy nauchnyy sotrudnik Instituta psikhiatrii AMN SSSR.  
(THROMBOSIS) (DURA MATER DISEASES)  
(HEMATOMA) (PSYCHOSES)

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KATAR'YAN, T.G.

Ways of increasing and methods of determining frost resistance in  
citrus fruits. Izv.AN Arm.SSR.Biol.i sel'khoz.nauki. 4 no.1:65-77  
'51 (MLRA 9:8)

1. Botanicheskiy institut i sad Akademii nauk Armyanskoy SSR.  
(Citrus fruits)

KATAR'YAN, T.G.

Some problems in the cultivation of citrus fruits in Armenia. Izv.  
AN Arm.SSR.Biol.i sel'khoz.nauki. 4 no.3:259-266 '51. (MLRA 9:8)

1. Botanicheskiy sad Akademii nauk Armyanskoy SSR.  
(Armenia--Citrus fruits)

KATAR'YAN, T.G.; KHURSHUDYAN, P.A.

Some preliminary data on the possibility of bay laurel cultivation  
in Armenia. Izv.AN Arm.SSR.Biol.i sel'khoz.nauki. 5 no.1:109-112  
'52. (MLRA 9:8)

1. Botanicheskiy institut i sad Akademii nauk Armyanskoy SSR.  
(Armenia--Laurel)

1. KATAR'IAN, T. G.
2. USSR (600)
4. Tea - Armenia
7. Experimental plantings of tea in Armenia. Biul. Glav. bot. sada no. 12, 1952.

9. Monthly List of Russian Accessions, Library of Congress, March 1953. Unclassified.



KATAR'IAN, T.G.

Viticulture

On the paths of reconstruction. Vin. SSSR 12 No. 8, 1952

9. Monthly List of Russian Accessions, Library of Congress, December 1952 Uncl.

KATARYAN, T. G.

L. I. ANTONOV, Severo Kavkazskii Zernovol Inst. (North Caucasian Grain Inst.  
Collection of Sci. Papers No. 1, 1942-6(1933)

1. KATAR'YAN, T. G.
2. USSR (600)
4. Wine and Wine Making
7. Scientific research work in the field of wine making. Vin. SSSR 13, No. 4, 1953.

9. Monthly List of Russian Accessions, Library of Congress, April 1953. Unclassified.

KATAR'YAN, T. .

FROLOV-BAGREYEV, A.M., professor, otvetstvennyy redaktor; NEGRUL', A.M., professor, zamestitel' otvetstvennogo redaktora; BLAGONRAVOV, P.P., kandidat sel'skokhozyaystvennykh nauk, zamestitel' otvetstvennogo redaktora; GERASIMOV, M.A., professor, redaktor; YEGOROV, V.I., redaktor; KARTAVCHENKO, P.K., kandidat sel'skokhozyaystvennykh nauk, redaktor; KATAR'YAN, T.G., kandidat biologicheskikh nauk, redaktor; POTAPENKO, Ya.I., kandidat sel'skokhozyaystvennykh nauk, redaktor; PROSTOSERDOV, N.N. professor, redaktor; TABIDZE, D.I., doktor sel'skokhozyaystvennykh nauk, redaktor; KHARITONOV, A.F., redaktor; KRUGLOVA, G.I., redaktor; KISINA, Ye.I., tekhnicheskiiy redaktor.

[. Ampelography of the U.S.S.R.] Ampelografiia SSSR. Red.kollegiia; A.M.Frolov-Bagreyev i dr. Moskva, Gos.nauchno-tekhn.izd-vo M-va promyshl.prodoval'stvennykh tovarov SSSR. Vol.6. 1956. 432 p.  
(MLBA 10:6)

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut vinodeliya i vinogradarstva "Magarach."  
(Grapes--Varieties)

*KATAR'yan, T.G.*

25-7-32/51

AUTHOR: Katar'yan, T.G., Director of the All-Union Scientific Research Institute of Viticulture and Wine-Making, Candidate of Biological Sciences

TITLE: At Magarach (V Magarache)

PERIODICAL: Nauka i Zhizn', <sup>24</sup>1957, # 7, p 48 (USSR)

ABSTRACT: About 130 years ago Russian scientists established the first vine plantations for experimental purposes at Magarach, near Yalta, in the Crimea. The vineyards have been constantly extended and new grape varieties were added. Under the Soviet Regime the small experimental station became an important scientific establishment which is now known as the All-Union Scientific Research Institute of Viticulture and Wine-Making. Presently the Institute's collection comprises 800 different grape varieties. Its most important task is to develop grapes with increased frost resistant properties for cultivation in rougher climates and to find means of effective protection from diseases and pests. A standard work on viticulture comprising 10 volumes entitled "Ampelography of the USSR" is being prepared for publication by the Institute.

Card 1/2

At Magarach

25-7-32/51

The article contains 5 photos.

ASSOCIATION: All-Union Scientific Research Institute of Viticulture and  
Wine-Making (Vsesoyuznyy nauchno-issledovatel'nyy institut vino-  
gradarstva i vinodeliya)

AVAILABLE: Library of Congress

Card 2/2

BREZHNEV, D.D., akad., red.; VLASYUK, I.A., akad., red.; GUSHCHIN, M.Yu., kand. sel'khoz. nauk, red.; YEVTUSHENKO, A.F., kand. sel'khoz. nauk, red.; KATAR'YAN, T.G., kand. biol. nauk, red.; KOLESNIKOV, V.A., doktor sel'khoz. nauk, red.; LAPIN, V.K., kand. biolog. nauk, red.; RYABOV, I.N., kand. sel'khoz. nauk, red.; ZHILYAKOVA, O., red. izd-va; GLIKMAN, N., red. izd-va; ISUPOVA, N., tekhn. red.

[Development of fruit culture and viticulture in the Crimea]  
Razvitie sadovodstva i vinogradarstva Kryma; trudy plenuma, provedennogo sovместno s Ukrainskoi akad. sel'skokhoziaistvennykh nauk, 20-24 maia 1958 goda (Simferopol'). Pod obshchei red. D.D.Brezhneva i I.A.Vlasiuka. Simferopol', Krymizdat, 1959. 467 p. (MIRA 15:5)

1. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk imeni V.I.Lenina. Sektsiya sadovodstva, vinogradarstva i subtropicheskikh kul'tur.  
(Crimea--Fruit culture) (Crimea--Viticulture)

KONDO, I.N.; KATAR'YAN, T.G., kand.biol.nauk, red.; FUKS, V.K., red.;  
SOKOLOVA, I.A., tekhn.red.

[Viticulture; winter hardiness of grapes in Central Asia]  
Vinogradarstvo; zimostoikost' vinograda v usloviakh Srednei  
Azii. Moskva, Pishchepromizdat, 1960. 255 p. (Yalta.  
Vsesoiuznyi nauchno-issledovatel'skii institut vinodeliia i  
vinogradarstva "Magarach." Trudy, vol.10) (MIRA 14:7)

1. Direktor Vsesoyuznogo nauchno-issledovatel'skogo instituta  
vinodeliya i vinogradarstva "Magarach". (for Katar'yan).  
(Soviet Central Asia--Viticulture)  
(Soviet Central Asia--Plants--Frost resistance)



KATAR'YAN, T.G.; DRBOGLAV, M.A.; DAVYDOVA, M.V.

Effect of gibberellic acid on different grape varieties.  
Fiziol.rast. 7 no.3:345-348 '60. (MIRA 13:6)

1. All-Union Institute Scientific Research Institute of  
Viticulture and Wine Making "Magarach", Yalta.  
(Gibberellic acid) (Grapes)

KATAR'YAN, T.G., kand.biolog.nauk

"Ampelography in the People's Republic of Rumania" by G. Constanti-  
nescu. Reviewed by T.G. Katar'ian. Agrobiologia no.6:946-947 N-D  
'60. (MIRA 13:12)

(Rumania--Grapes--Varieties)  
(Constantinescu, G.)

KATARYAN, T.G.; YEGOROV, I.A.

Problems in the biochemistry of wine making. Izv. AN SSSR. Ser.biol.  
no.6:949-953 N-D '60. (MIRA 13:11)  
(WINE AND WINE MAKING)

KATAR'YAN, T.G. [Katar'ian, T.H.], kand.biolog.nauk

Better grape varieties for the Crimean and Kherson Economic Regions.  
Visnyk sil'hosp.nauky 4 no.8:0-54 Ag '61. (MIRA 14:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut vinogradarstva i  
vinodeliya "Magarach".

(Crimea--Grapes--Varieties)  
(Kherson Economic Region--Grapes--Varieties)

KATAR'YAN, T.G., glav.red.; BLAGONRAVOV, P.P., red.[deceased];  
GOLIKOVA, Z.I., red.; GOLODRIGA, P.Ya., red.; MONOZOVA, G.S.,  
red.; NILOV, V.I., red.; OKHREMENKO, N.S., red.; PALAMARCHUK,  
G.D., red.; POPOV, K.S., red.; SKVORTSOV, A.F., red.;  
ROSSOSHANSKAYA, V.A., red.; ANTONOVA, N.M., tekhn. red.

[Problems of viticulture and wine making; abstracts for work  
for 1959-1960] Voprosy vinogradarstva i vinodeliia; sbornik  
referatov nauchnykh rabot za 1959-1960 gody. Moskva, Sel'khoz-  
izdat, 1962. 363 p. (MIRA 15:7)

1. Yalta. Vsesoyuznyy nauchno-issledovatel'skiy institut vinode-  
liya i vinogradarstva "Magarach."  
(Viticulture) (Wine and wine making)

KATAR'YAN, T.G.; DRBOGLAV, M.A.

[Effect of gibberellin on the crop yield and quality  
of the table varieties of grapes] Vliianie gibberel-  
lina na urozhai i kachestvo stolovykh sortov vino-  
grada. Simferopol', Krymizdat, 1963. 34 p.

(MIRA 18:11)

GALADZHEV, R.S.; GAFANOVICH, A.A.; KARANOV, Ye.Ye.; KATAR'YAN, Ye.S.

Investigating the strength of threshing drum shafts in combines.  
Trakt. i sel'khoz mash. no.2:24-28 F '58. (MIRA 12:3)

1. Rostovskiy zavod sel'skokhozyaystvennogo mashinostroyeniya.  
(Combines (Agricultural machinery))

GALADZHEV, R.S.; SAVIN, V.I.; KATAR'YAN, Ye.S.

Calculations for a mounted overshoot straw and hay stacker.  
Trakt. i sel'khoz mash. 31. no.7:23-25 J1 '61.

(MIRA 14:6)

(Harvesting machinery)



GALADZHEV, R.S.; KATAR'YAN, Ye.S.; GARANKINA, S.P., red. izd-va;  
TIKHANOV, A.Ya., tekhn. red.

[Geometrical characteristics of plane cross sections; reference  
tables] Geometricheskie kharakteristiki ploskikh sechenii;  
spravochnik tablitsy. Moskva, Mashgiz, 1963. 181 p.

(MIRA 16:5)

(Geometry, Plane--Tables, etc.)

VOZMILOVA, L.N.; MALYUTA, N.G.; KATAYEV, G.A.

Kinetics of dissolution of gallium arsenide in sulfuric and  
phosphoric acid solutions of hydrogen peroxide. Zhur.fiz.khim.  
38 no.11:2725-2727 N '64. (MIRA 18:2)

1. Tomskiy gosudarstvennyy universitet imeni Kuybysheva.

KATARYGIN, A.M., kandidat tekhnicheskikh nauk.

Consultation. Stan.i.inst. 18 no.8:29-30 Ag '47. (MLRA 9:1)  
(Saws)

KATARZHEN, M. S.

"Selection of Vegetable Crops of the Stalingrad Experimental Station VNIIEP." Cand  
Agr Sci, Fruit and Vegetable Inst imeni I. V. Michurin, Min Higher Education USSR,  
Michurinsk, 1955. (KL, No 11, Apr 55)

SO: Sum. No. 704, 2 Nov 55 - Survey of Scientific and Technical Dissertations Defended  
at USSR Higher Educational Institutions (16).

USSR/Cultivated Plants - Potatoes, Vegetables, Melons.

M.

Abs Jour : Ref Zhur - Biol., No 10, 1958, 44125

Author : Katarzhin, M.S.

Inst : All-Union Scientific Research Institute for Canning and Fruit Drying Industries.

Title : Selection Work on Sweet Pepper at the Stalingrad Experimental-Selection Station of VNIKOP (All-Union Scientific Research Institute of the Canning Industry).

Orig Pub : Tr. Vses. n.-i. in-t konserv. i ovoshchesushil'n. prom-sti, 1955, vyp. 5, 158-170

Abstract : The selection of peppers at the station is carried out by the method of sexual hybridization and subsequent controlled breeding and selection of hybrids. A collection of 155 specimens of the sweet pepper was gathered. The entire

Card 1/2

- 66 -

*Cand. Agric Sci*

KATARZHIN, M.S., kandidat sel'skokhozyaystvennykh nauk.

Canning 10, a new variety of eggplants. Trudy VNIIEOP no.5:171-175  
'55. (MIRA 9:11)

(Eggplant--Varieties)

KATARZHIN, M.S.

USSR/Cultivated Plants - Potatoes. Vegetables. Melons. etc.

M.

Abs Jour : Ref Zhur - Biol., No 4, 1958, 15629

Author : M.S. Katarzhin

Inst :

Title : Concerning the Dry Matter in Tomatoes.  
(O sukhikh veshchestv v plodakh tomatov).

Orig Pub : Konservn. i ovoshchesush. prom-st', 1957, No 12, 12-13.

Abstract : According to the data of the Stalingrad and other  
experimental selection stations, a greater accumulation  
of dry matter is noted in the non-stemmed varieties  
than in those with stems.

Card 1/1

76

KATARZHIN, N.S.

Mechanical removal of seeds from peppers and eggplants. Kons.1  
ov.prom. 12 no.5:25-27 My '57. (MLPA 10:8)

1. Stalingradskaya opytno-selektsionnaya stantsiya Vsesoyuznogo  
nauchno-issledovatel'skogo instituta konservnoy i ovoshche-  
sushil'noy promyshlennosti.  
(Eggplant) (Pepper) (Agricultural machinery)



USSR/Engineering - Power

FD-2245

KATARZHIS, A. K.  
Card 1/1 Pub 41-13/17

Author : Katarzhis, A. K., Kosterin, S. I., and Sheynin, B. I., Moscow

Title : An electrical method of registering the separation of a steam-water mixture

Periodical : Izv. AN SSSR. Otd. Tekh. Nauk 2, 132-136, Feb 1955

Abstract : Describes a method for registering the separation of a steam-water mixture by using an electrically heated filament. The device works on the principle that the filament would have different heat emissions in steam and water. Diagrams, table. One USSR reference.

Institution:

Submitted : January 31, 1955

KATARZHIS, A. K.

PERIODICAL ABSTRACTS

Sub.: USSR/Engineering

AID 4151 - P

KOSTERIN, I. S., B. I. SHEYNIN, and A. K. KATARZHIS

OPYTNYYE KHARAKTERISTIKI RAZDELENNOGO TECHENIYA PAROVODYANOY  
SMESI V PRYAMOY GORIZONTAL'NOY TRUBE (Experimental data on the  
divided flow of steam-water mixture in a straight horizontal  
conduit). Teploenergetika, no. 1, Ja 1956: 22-26.

Research on mixed steam and water flow under a 120 atm pressure  
made at the high pressure heat and power plant no. 9 is reported.  
The experimental hydrodynamic installation is described in detail.  
The different flow combinations are presented with diagrams.  
Tests reportedly established flow velocity for given atm pressures.

AUTHORS: Kosterin, S.I. (Dr.Tech.Sci.) SOV/96-58-10-14/25  
Sheynin, B.I. (Cand.Tech.Sci.)  
Katarzhis, A.K. (Engineer)

TITLE: An experimental investigation of true steam contents during the flow of steam-water mixture in a slightly sloping tube. (Eksperimental'-noye issledovaniye istinnykh parosoderzhanii pri techenii parovodyanoy smesi v slabonaklonnoy trube.)

PERIODICAL: Teploenergetika, 1958, No.10. pp. 55-60 (USSR)

ABSTRACT: A formula is given for the specific weight of a steam/water mixture moving in a sloping tube; it includes terms for the losses of head due to friction and acceleration. If steam content of a mixed flow is evaluated by measuring flow in an unheated tube and applying this formula, the result is not accurate because the frictional loss cannot be determined exactly. It is, therefore, better to measure the actual specific weight of the mixture. Previous attempts to do this are briefly reviewed. The method used for the present work was to cut off a volume of the mixture by means of two high-speed valves located at the ingoing and outgoing ends of the experimental section of tubing. A third valve was used as a by-pass. The requirements that the valves must meet are specified with particular reference to rate of closing. A sectional drawing of the valve used is seen in Fig.1., and its construction

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An experimental investigation of true steam contents during the SOV/90-58-10-14/25  
flow of steam-water mixture in a slightly sloping tube.

is described. The valve is operated by a known weight falling from a certain height, the details being given in Table.1. The test rig is drawn schematically in Fig.2., and has an experimental section about 7.2 metres long. The valves carried contacts whereby the time of operation could be recorded on an oscillograph. The oscillogram reproduced in Fig.3. shows that the difference in operating time was 0.003 secs, and that the duration of closing was about 0.015 secs. Tests were made to ensure that the valves did not leak. After the valves had closed, the steam/water mixture was cooled, discharged and weighed. It is calculated that the error of determination of the true specific weight is 4.6% at 20 kg/m<sup>3</sup> and 0.9% at 200 kg/m<sup>3</sup>. The construction of the rest of the apparatus is then described in more detail, and includes the method of introducing thermo-couples, as illustrated in Fig.4. Sight-glasses of optical quartz were provided to observe the flow structure. Brief characteristics of tests to determine true specific weights of steam/water mixture moving in a tube 29.9 mm internal diameter at a slope of 9°43' are given in Table.2. The tests were made over a wide range of steam contents at pressures of 40, 70 and 120 atms. The steam contents by volume

Card 2/3

An experimental investigation of true steam contents during the flow SOV/96-58-10-14/25 of steam-water mixture in a slightly sloping tube.

as functions of various parameters are plotted in Figs. 5, 6 and 7. The dotted lines are calculated by the standard methods of the Central Boiler Turbine Institute for making calculations on circulating water in steam boilers. It will be seen that in general, these calculated curves lie too low. This mainly because of the structure of the steam/water flow. The article concludes with a description of several typical and transitional forms of flow. There are 8 figures, 2 tables and 4 Soviet references.

ASSOCIATION: Power Institute, AS. USSR (Energeticheskii  
Institut AN SSSR)

Card 3/3

SHEYNIN, B.I.; KATARZHIS, A.K.

Limits of flow forms of a steam-water mixture in an inclined  
pipe. Teploenergetika [Energ. inst.] no.1:30-39 '59.

(MIRA 13:2)

(Pipe--Hydrodynamics)

*Power Engineering Institute in Khrizhainovskiy, U.S.S.R.*

KATARZYNSKI, S.

Survey of methods used for measuring the thickness of coatings. p. 81.  
(TECHNIKA MOTORYZACYJNA, Vol. 4, No. 3, Mar. 1954, Warszawa, Poland)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 3, No. 12, Dec.  
1954, Uncl.

PAWLIKOWSKI, J.

LATARZYSKI, S. Critical remarks about the standard EN/14-04 360; Vicker's test of the hardness of metals. p. 709. Vol. 23, no. 12, Dec. 1955. NORMATYZACJA. Warszawa, Poland.

SOURCE: East European Accessions List (EEAL) 10 Vol. 5, No. 6 June 1956



KATARZYNSKI, S.

The measurement of the thickness of coatings. p.453  
(POMIARY, AUTOMATYKA, KONTROLA, Vol. 2, No. 11, Nov. 1956, Warsaw, Poland)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, No. 9, Sept. 1957, Uncl.

KATARZYNSKI, S.

New method of measuring the thickness of carbonized layers.

p. 178 (Pomiary, Automatyka, Kontrola. Vol. 2, no. 5, May 1956. Warszawa, Poland)

Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 2,  
February 1958

KATARZYNSKI, S.; KAMINSKI, E.

A novel method of embedding metallorgraphic specimens. p. 21.  
(MECHANIK. Poland Vol. 30, no. 1. Jan. 1957)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, no. 7, July 1957, Uncl.

KATARZYNSKI, S.

A Czechoslovak planer for finishing.

P. 475. (MECHANIK) (Warszawa, Poland) Vol. 30; no. 11, Nov. 1957

SO: Monthly Index of East European Accession (EEAI) LC VOL. 7, NO, 5, 1958

NIESYT, Gustav; KATARZYNSKI, S., mgr inz. [translator]

Czechoslovak machine tools at the 32d International  
Poznan Fair. Mechanik 36 no.6:280-282 Je '63.

1. Doswiadczalny Instytut Obrabiarek i Obrobki, Praha  
(for Niesyt).

KATARZYNSKI, Stefan, mgr inz.

Hardness measuring of automobile parts. Pt. 1.  
Techn motor 12 no. 6: 183-186 Je '62.

KATARZYNSKI, St. ed., mgr inż.

A few bitter remarks on the building materials of the future.  
Przegl techn 86 no.11:14 14 Mr '65.

KATARZYNSKI, Stefan, mgr inż.

Particular types of illiteracy. Przegl techn 86 no.22:3 '65.



KATASEK, Alfred

Cold test in threatened pregnancy toxemia. Gin.polska 26 no.2:  
181-186 Apr-June '55.

1. Z I Kliniki Poloznicznej Uniwersytetu im. Karola w Pradze  
(Czechoslowacja) Kierownik: prof. dr K. Klaus. Praha II Apoli-  
narska 18.

(PREGNANCY TOXEMIAS, diagnosis,  
cold pressor test in threatened toxemia)

(COLD,  
pressor test in threatened toxemia)

KATASEV, L.A.

CAND PHYSICOMATH SCI.

Dissertation: "Determination of Meteor Orbits by S A O Photographs."

23 June 49

Moscow State V imeni M.V. Lomonosov.

**SO Vecheryaya Moskva**  
**Sum 71**

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KATASEV, L. A.

KATASEV, L. A. and SOLOV'YEV, A. V. "The Darvaza bolide" (Reports of the expedition of the Stalinabad Astronomical Observatory of the Tadzhik Branch of the Academy of Sciences, USSR, 1947), Meteoritika, Issue 5, 1949, p. 29-33.

So: U-3261, 10 April 53, (Letopis 'Zhurnal 'nykh Statey, No. 12, 1949).

**KATASEY, I.A.**

Determination of meteor orbits from photographs of the Stalinabad  
Astronomical Observatory. Trudy Stal.astron.obser.3 no.1:5-41 '50.  
(Meteors) (Orbits) (MIRA 8:3)

KATASEV, L. A.

Meteors

Application of Mescherskii's equation in the theory meteoric motion of a body in atmosphere. BiulStal.astron.Obser. No. 1, 1952. (pp 27-31)

Subject eqs. for the case of a moving body of variable mass ( e.g., rockets, meteors, etc.) were derived by I. V. Meshcherskiy in "Works on the Mechanics of Bodies of Variable Mass," Raboty po Mekhanike Tel Peremennoy Massy (State Press of Theo-Tech Lit, 1949) in the following vector form: 
$$\frac{d}{dt}mv = \bar{R} + \bar{q} + \bar{u} \frac{dm}{dt},$$
 where  $v$  is meteor's velocity,  $m$  its variable mass,  $\bar{R}$  resistance,  $\bar{q}$  gravity, and  $\bar{u}$  mean velocity of molecules evaporating from the frontal surface. Cites the related work of A. A. Kosmodem'yanskiy "Mechanics of Bodies of Variable Mass" (Mekhanika Tel Peremennoy Massy), published by M. I. Aeronaut Eng Acad im. Zhukovskiy 1947. Applies derived formulas to Acad V. G. Fesenkov's data on the famed 200-ton Sikhote-Alin meteorite (DAN SSSR, Vol 66, 3, 1949).

251T15

Monthly List of Russian Accessions, Library of Congress, June 1953. Unclassified.

KATAYEV, L. A.

USSR/Astronomy - Meteors, Mass

Nov/Dec 52

"Photographic Determination of Masses of Meteors,"  
L. A. Katayev, Stalinabad Astron Observ, Acad Sci  
USSR

"Astron Zhur" Vol 29, No 6, pp 689-693

To compute masses of meteoric mass it is assumed that  
their luminosity is proportional to energy of loss of  
mass, due to friction in air, per unit time, the  
coef of proportionality being a function of velocity.  
Presents examples of computation and concludes that  
most meteors have diams of the order of mm. Sub-  
mitted 9 Apr 52.

239T79

KATASEVA, L.A.

USSR/Astronomy - Position, Computation of

Nov/Dec 53

"Remark Concerning the Determination of the Photographic Position of an Object From two Reference Stars," A. N. Deych, Main Astron Observ, Acad Sci USSR

Astron Zhur, Vol 30, No 6, pp 653-654

Derived Formulas for detn of position, assuming as known, the declination of the optical center of the plate. This method was applied by L.A. Kataseva and A. K. Sosnova at Stalinabad Observ to measure traces of meteors. Attempts to simplify computation by substituting declination of center of plate by mean declination of reference stars. This method is analysed further in the next article by F. F. Bulatova. Rec 4 Oct 53.

KATASEV, L.A.

Study of comets and meteors at the Stalinabad observatory AN Tadzhikskoy  
SSR no.8:27-32 '54. (MLRA 9:9)

1. Stalinabadskaya astronomicheskaya observatoriya AN Tadzhikskoy SSR.  
(Comets) (Meteors)



KATASEV, L. A. and SOSENOVA, A. K.

"Results of the Photographic Study of Meteors at Stalinabad Observatory"  
Trudy Ak. Nauk Tadzhik SSR, No. 20, 1954.

Translation: ATIC 249344 P-TS-8863/III

BABADZHANOV, Pulat Babadzhonovich; SOLOV'YEV, A.V., otv.red.; DOBROVOL'SKIY, O.V., red.; KATASEV, L.A., red. BAKHAREV, red.; FROLOV, P.M., tekhn.red.

[Investigating the rate of the ejection of mater from comet nuclei; origin of meteor showers] Issledovanie skorostei izverzheniya veshchestva i iader komet; k voprosy o proiskhozhdenii meteornykh potokov. Stalinabad, Izd-vo Akad.nauk Tadzh. SSR, 1955. 67 p. (Akademiya nauk Tadzhinskoi SSR. Stalinabad, Trudy, vol. 38). (MIRA 12:11)  
(Comets) (Meteors)

**"APPROVED FOR RELEASE: 06/13/2000**

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**KATASEV, L.A.**

Data on meteors and the relation of meteoric bodies to other  
bodies of the solar system. Meteoritika no.13:76-85 '55.  
(Meteors) (MLRA 9:2)

KATASEV, L.A.

Some regularities in the correlation of comets, meteors and  
asteroids. Biul.Stal.astron.obser. no.14:5-11 '55. (MLRA 9:10)

(Solar system)

KATASEV, L. A. (Stalinabad); TSESEVICH, V. P. (Corr. Mem. Acad. of Sci. Ukrainian SSR, Odessa) and ASTAPOVICH, I. S. (Ashkhabad)

"Equipment for Observing Meteors," a report presented at the Conference of Commission on Astronomical Instruments Construction of the Astronomical Council, AS USSR, 10-12 Feb. 56.

Sum. No. 1047, 31 Aug 56

KATASEV, L.A.; SOSNOVA, A.K.

Results of photographic observations of meteors in 1953  
at the Stalinabad Observatory. Biul.Stal.astron.obser.  
no.15:10-13 '56.

(MLRA 9:10)

(Meteors)



SAIDOV, Kasym Khasanovich; SOLOV'YEV, A.V., otv. red.; BABADZHANOV, P.B., red.;  
DOBROVOL'SKIY, O.V., red.; KATASEV, L.A., red.; BAKHAREV, A.M., red.;  
VINOGRADSKAYA, S.N., red.izd-va; FROLOV, P.M., tekhn. red.

[Spectrophotometry of beta Lyrae] Spektrofotometriia beta Liry.  
Stalinabad, Izd-vo AN Tadzh. SSR, 1957. 93 p. (Akademiia nauk  
Tadzhikskoi SSR. Stalinabad, Trudy, vol. 66).

(MIRA 12:12)

(Stars, Variable) (Spectrophotometry)

IVANIKOV, V.I.; SOLOV'YEV, A.V., otv.red.; BABAJEHANOV, P.B., red;  
DOBROVOL'SKIY, O.V., red; KATASEV, L.A., red.; BAKHAREV, red.;  
FROLOV, tekhn.red.

[Methods used in photographic photometry of meteors] 0 metedakh.  
fotograficheskoi fotometrii meteorov. Stalinabad. Izd-vo Akad.  
nauk Tadzhik, SSR. 1957. 45 p. (Stalinabad.Astronomicheskaya  
observatoriya. Biulleten'. No. 21) (MIRA 11:8)  
(Meteors) (Photometry, Astronomical)

KATASEV, LEV A.

Call Nr: 221

AUTHOR: Katasev, Lev ALISIMOVICH

TITLE: Photographic Methods of Meteoric Astronomy Fotograficheskiye metody meteornoy astronomii)

PUB. DATA: Gosudarstvennoye izdatel'stvo tekhniko-teoreticheskoy literatury, Moscow, 1957, 179 pp. 3000 copies.

EDITORS: Editor: Rakhlin, I. Ye.; Tech. Ed.: Gavrilov, S. S.; Corrector: Pletneva, T. S.

PURPOSE: The book is intended for students and graduates specializing in astronomy and geophysics and specialists in these fields. It will be useful to observers studying meteors in accordance with the program of the International Geophysical Year.

COVERAGE: This systematic review is based on the author's special lectures to students of the Tadzhik University (Stalinabad) and on the application of photo-technique in the study of single and stream meteors. Methods and machinery used in the observation of meteoric radiants and the analysis of findings are given. The newest rocket technique facilitates

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Photographic Methods of Meteoric Astronomy (Cont.)

Call Nr: 221

the securing of pertinent data concerning the higher reaches of the atmosphere. Determination of the luminous stage, which starts at 100-120 km above the earth and ends at 50-70 km depending entirely on the velocity and the mass of the meteor, is extensively described. Over 100 gaseous spectra of meteors secured by photo-technique show the presence of many elements, including hydrogen. Velocity of the meteors varies between 15 and 72 km/sec. The distribution of densities in the atmosphere, particularly in its higher levels, is quite different from that assumed by theory: it is determined by a formula in which the velocity and the retardation (by braking effects) of a meteor within a certain part of the trajectory are essential factors. These are determined directly from the ends of a basic line from photographs made with a new obturator constructed by the astronomer Ye. N. Kramer (Odessa). Recent studies by the Czech astronomer Zd. Cepkecha disclose considerable deviations in densities at altitudes around 80 km. Calculations of orbits and analysis of observations close the book. Personalities mentioned include: Kovraskiy, V.; Mal'tsev, A. I., Lytkina, A. V.; Blazhko, S.N., Babadzhanov, P. B., Orlov S. V., Professor; Fedynskiy, V. V., Professor; and Levine, B. Yu., Doctor of Physical and Mathematical Sciences. There are 17 tables, 58 drawings and 106 bibliographic references, of which 65 are Soviet, 37 English, 2 German, and 1 French.

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Photographic Methods of Meteoric Astronomy (Cont,)

Call Nr. 221

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Photographic Methods of Meteoric Astronomy (Cont'd)

Call Nr: 221

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KATASEV, L.A.

Radiants of four meteor showers. Biul.Kom.po komet. i meteor.  
AN SSSR no.1:32-34 '57. (MIRA 12:5)

1. Stalinabadskaya astronomicheskaya observatoriya AN Tadzhik-  
skoy SSR.

(Meteors)

KATASEV, L.A.; SOSNOVA, A.K.; BABADZHANOV, P.B.

Results of photographic observations of meteors at the  
Stalinabad Astronomical Observatory in 1954-1955. Biul.  
Stal.astron.obser. no.19:33-34 '57. (MIRA 13:3)  
(Meteors)

KATASEV, L.A.

Results of studying meteors at the Stalinabad Observatory  
during 25 years. Biul.Stal.astron.obser. no.22/23:43-49 '57.  
(MIRA 11:7)

(Meteors)

KATASEV, L.A.

KULAGIN, S.G.; KOVBASYUK, L.D.; DAGAYEV, M.M.; ROZENBLYUM, N.D.; YEGORCHENKO, I.P. (Irkutsk); KAVERIN, A.A. (Irkutsk); KONSTANTINOVA, T.G. (Irkutsk); KUKLINA, V.A. (Irkutsk); KUKLIN, G.V. (Irkutsk); SAZONOVA, Z.G., (Irkutsk); CHERNYKH, L.I. (Irkutsk); CHERNYKH, N.S. (Irkutsk); DEMIDOVICH, Ye.G.; BRONSHTEIN, V.A.; YAKHONTOVA, N.S. (Leningrad); PEROVA, N.B.; DOKUCHAYEVA, O.D.; KATASEV, L.A.; KLYAKOTKO, M.A.; PARENAGO, P.P.; SHCHERBINA-SAMOILOVA, I.S.; MASEVICH, A.G.; RYABOV, Yu.A.; SHCHEGLOV, V.P.; PEREL', Yu.G.; MARTYNOV, D.Ya.; FEDYNSKIY, V.V.; VORONTSOV-VEL'YAMINOV, B.A.; ZIGEL', F.Yu.; BAKULIN, P.I., etv.red.; RAKHLIN, I.Ye., red.; AKHLAMOV, S.N., tekhn.red.

[Astronomical calendar] Astronomicheskii kalendar'. [A yearbook; variable section for 1959] Eshegednik. Peremennaya chast', 1959. Red.kollektiva P.I. Bakulin i dr. Moskva, Gos.izd-vo fiziko-matem.lit-ry, 1958. 370 p. (Vsesoiuznoe astronome-geodezicheskoe obshchestvo, no.62) (MIRA 12:2)

1. Gosudarstvennoye astronome-geodesicheskoye obshchestvo (for Kulagin, Kovbasyuk, Demidovich). 2. Moskovskoye otdeleniye Vsesoyuznogo astronome-geodesicheskogo obshchestva (for Dagayev, Rozenblyum, Bronshten, Pereva).

(Astronomy--Yearbooks)

3(7)

AUTHOR: Katasev, I.A.

SOV/33-36-2-17/27

TITLE: The Determination of the Height of an Homogeneous Atmosphere  
from Photographic Observations of Meteors

PERIODICAL: Astronomicheskii zhurnal, 1959, Vol 36, Nr 2, pp 334-339 (USSR)

ABSTRACT:

The author deduces a new formula for the height of an homogeneous atmosphere from photographic observations of meteors. This formula is said to be more suitable for practical use than a similar formula due to Cepplecha [Ref 1\_] since the deceleration of the meteor, difficult to determine, does not enter explicitly. With the aid of his formula the author calculated the temperature in the zone 73 - 103 km and found a good coincidence with the observations of V.V. Mikhnevich [Ref 10\_].

There are 3 figures, 1 table, and 14 references, 5 of which are Soviet, 5 American, 2 English, 1 French, 1 Czech.

ASSOCIATION: Institut prikladnoy geofiziki AN SSSR (Institute for Applied Geophysics, AS USSR)

SUBMITTED: May 15, 1958

Card 1/1

AUTHOR: Katasev, L. A., Candidate of Physical and Mathematical Sciences S/030/60/000/03/028/044  
B015/B007

TITLE: Investigation of the Upper Atmospheric Layers by Means of Meteoric Methods

PERIODICAL: Vestnik Akademii nauk SSSR, 1960, Nr 3, p 98 (USSR)

TEXT: An All-Union seminar on the investigation of the terrestrial atmosphere by means of meteoric methods took place at Ashkhabad from December 11 to December 14, 1959. The seminar had been convened by the Komissiya po kometam i meteoram (Commission for Comets and Meteors) of the Astronomicheskii soviet Akademii nauk SSSR (Astronomical Council of the Academy of Sciences of the USSR). The head of the seminar was B. Yu. Levin, who delivered a report on the process of disintegration of meteoric bodies during their motion in the terrestrial atmosphere. S. M. Poloskov and L. A. Katasev spoke about the subject "Structural Parameters of the Upper Atmosphere on the Basis of Data on Rocket- and Satellite Research, and the Research of Atmospheric Structure by Means of Meteoric Methods". The determination of atmospheric density and temperature on the basis of photographic observation of meteors, which were made in 1957 at Stalinabad was dealt with by P. B. Babadzhanov; similar work carried out at Odessa was dealt with by Ye. N. Kramer. V. I. Ivannikov described photometric investigations

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Investigation of the Upper Atmospheric Layers by  
Means of Meteoric Methods

S/030/60/000/03/028/044  
B015/B007

carried out at Stalinabad by means of the <sup>12</sup> device "Artificial Meteor". Kh. Gul'-medov and A. P. Savrukhin gave a report on the results of investigations of stratospheric winds carried out at the Fiziko-tekhnicheskiy institut Akademii nauk Turkmensoy SSR (Institute of Physics and Technology of the Academy of Sciences of the Turkmensoy SSR) on the basis of the drift of meteoric tracks. K. A. Lyubarskiy and I. P. Latyshev of the same Institute spoke about the results obtained by investigations of meteors only weakly discernible in a telescope. The seminar voted in favor of recommendations dealing with the improvement and development of the method of utilizing observations and with their standardization. The participants in the seminar paid a visit to the Astrofizicheskaya laboratoriya (Astrophysical Laboratory) of the Academy of Sciences of the Turkmensoy SSR and inspected the new observatory at Vannovskaya near Ashkhabad.

Card 2/2



3.1720

78016  
SOV/33-37-1-16/31

AUTHORS: Katasev, L. A., Korpusev, V. N., Oplyanskij, A. D.

TITLE: Observations of Meteors With Radar With Two Receivers  
of Different Sensitivity

PERIODICAL: Astronomicheskij zhurnal, 1960, Vol 37, Nr 1,  
pp 115-118 (USSR)

ABSTRACT: T. R. Kaiser has derived the relation between the  
numbers of observed meteors and the parameters of two  
radar transmitters of different sensitivity. Using  
this relation, the authors derive the expression for  
the parameter S which characterizes the structure of a  
meteor stream:

$$S = 1 + 2 \frac{\log \frac{N_1}{N_2}}{\log \left[ \frac{P_1 \left( \frac{\lambda_1}{\lambda_2} \right)^3 \frac{c_1}{c_2}}{P_2 \left( \frac{\lambda_2}{\lambda_1} \right)^3 \frac{c_2}{c_1}} \right]} \quad (3)$$

Card 1/3

Here, N is hourly number of meteors; P, peak intensity

Observations of Meteors With Radar With  
Two Receivers of Different Sensitivity

78016  
SOV/33-37-1-16/31

of radar signal;  $\lambda$ , wavelength;  $\epsilon$ , threshold intensity of signal; indices 1 and 2 refer to the two transmitters. The standard radar transmitter of the Institute of Applied Geophysics of the Academy of Sciences, USSR, has a peak power of  $P = 80$  kw and uses the wavelength  $\lambda = 4.1$  m. It was modified by the latter two authors by adding another transmitter such that  $\epsilon_2 / \epsilon_1 = 4$ , and an attachment for registering the number of meteors photographically. With this equipment the stream of Quadrantids was observed January 2-7, 1959, between the hours of 5 and 7 (local time). The quantity  $S$  did not remain constant but reached a maximum value of 2.96 on January 4; the authors explain it by increase in the number of small meteors. If  $t_1$  and  $t_2$  are the durations of the radio echo of one and the same meteor trail for the two radar transmitters, then it is possible to determine the coefficient of diffusion:

$$D = \frac{\lambda^2}{32\pi^2(t_2 - t_1)} \ln \frac{\epsilon_1}{\epsilon_2} \quad (6)$$

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Observations of Meteors With Radar With  
Two Receivers of Different Sensitivity

78016  
SOV/33-37-1-16/31

The authors thank G. N. Solov'ev, B. F. Chernyaev,  
and E. G. Simakina, who participated in observations  
and their reductions. There are 2 tables; 1 figure; and  
5 references, 4 Soviet, 1 U.K. The U.K. reference is:  
T. R. Kaiser, Monthly Notices, 114, 39 (1954).

ASSOCIATION:

Institute of Applied Geophysics of the Academy of  
Sciences, USSR (Institut prikladnoy geofiziki Akademii  
nauk SSSR)

SUBMITTED: April 14, 1959

Card 3/3

87240

3,9000 (1041, 1109, 1327)

S/034/60/000/212/002/003  
E032/E114

AUTHORS: Katasev, L.A., and Solov'yev, G.N.

TITLE: Radar Observations of Perseids in 1959

PERIODICAL: Astronomicheskiy tsirkulyar, 1960, No.212, pp. 18-20

TEXT: Radar observations of Perseids were carried out between August 10 and 15, 1959, near Moscow, using the apparatus described earlier in Ref.1. The working wavelength was  $\lambda = 4.1$  m. Meteors were recorded photographically using two receivers. The ratio of the two threshold sensitivities was equal to 4. During 40.1 hours a total of 546 meteors was recorded by the first receiver, and 364 by the second. Recorded hourly rates for each receiver are given in the following table. The figures in brackets refer to the number of hours of observations, and the last column gives the value of the parameter  $S$  which is the exponent in the mass distribution law. As can be seen from this table, the value of  $S$  differs considerably from the average value of 1.54 on one date only (August 11). On this date predominance of bright meteors was observed visually. The accepted value for  $S$  is 1.56 (Lovell, Ref.2, and Levin, Ref.3).

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